Kidde
A UTC Fire & Security Company

CSA 6.19-01

Carbon Monoxide Alarm
User's Guide

900-0099

900-0099
KN-COPP-3-RC
with Digital Display

AC Plug-in Operated with Self Recharging Battery Backup

ATTENTION: Please take a few minutes to thoroughly read this user's guide which should be saved for future reference and passed on to any subsequent owner.

Manual P/N 820-1280 Rev. C 08/11

What to do When the Alarm Sounds!

Carbon Monoxide Alarm Procedure

WARNING: Activation of the CO Alarm indicates the presence of Carbon Monoxide (CO) which can kill you.

If the alarm sounds 4 quick "beeps", 5 seconds off:

1) Immediately move to fresh air – outdoors. Check that all persons are accounted for. Do not re-enter the premises until the emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal operating condition.

2) Call your local emergency service.
(fire department or 911)

PHONE NUMBER:

If the alarm is sounding, pressing the test/reset button will terminate the alarm. If the CO condition that caused the alert in the first place continues, the alarm will reactivate. If the unit alarms again within six minutes, it is sensing high levels of CO which can quickly become a dangerous situation.

Welcome

Note: Many times throughout this User's Guide, we will refer to Carbon Monoxide as "CO".

This Kidde carbon monoxide (CO) alarm is an important part of your family's home safety plan. This alarm has been designed and tested to detect CO buildup in a residential environment. Your alarm is for use specifically in the home. As an owner of a CO alarm, there are some basic facts you should know about for your protection.

Many people think that CO alarms operate like smoke alarms. Like smoke alarms, CO alarms monitor the air in your home and sound a loud alarm to warn you of trouble. The way you respond to a CO alarm is quite different than a smoke alarm. That's because a house fire and a CO problem are two distinctly different situations. If your smoke alarm were to alarm, you would quickly be able to judge the level of danger you were in with your senses. You can see and smell the smoke, feel the heat, see, and possibly hear the fire burning. You can also readily see if your smoke alarm is alarming in a non-emergency situation. Because your sense of sight, smell, hearing and touch give you information, you can almost instantly judge what action to take if you hear your smoke alarm.

CO is an invisible, odorless, tasteless and non-irritating gas – completely undetectable to your senses. That's why it is important to your safety that you have a CO alarm.

Important Warning Statements

IMPORTANT: This carbon monoxide alarm is designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas.

WARNING: Carbon monoxide alarms are not smoke alarms. This carbon monoxide alarm is not a substitute for installing and maintaining an appropriate number of smoke alarms in your home.

This carbon monoxide alarm will not sense smoke, fire, or any poisonous gas other than carbon monoxide even though carbon monoxide can be generated by fire. For this reason you must install smoke alarms to provide early warning of fire and to protect you and your family from fire and its related hazards.

CAUTION: This alarm will only indicate the presence of carbon monoxide at the sensor. Carbon monoxide may be present in other areas.

Important Warning Statements

WARNING: This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure compliance with commercial or industrial standards. It is not suitable for installation in hazardous locations as defined in the National Electric Code.

The installation of this device should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances, including appropriate ventilation and exhaust systems. It does not prevent CO from occurring, nor can it solve and existing CO problem.

WARNING: This device is designed to protect individuals from acute effects of carbon monoxide exposure. It may not fully safeguard individuals with specific medical conditions. If in doubt, consult a medical practitioner.

Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 PPM.

This carbon monoxide alarm requires a continuous supply of electrical power – it will not work without power. Models without battery backup will not operate during power failure.

This alarm has not been investigated for carbon monoxide detection below 70 PPM.

Contents of This User's Guide

1. **Information About Carbon Monoxide**
2. **Product Features and Specifications**
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6. **Operating Characteristics**
7. **Maintenance**
8. **Limited Warranty**

1. Information About Carbon Monoxide

General Carbon Monoxide Information

Carbon monoxide is a colorless, odorless and tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen.

Periodically review this alarm manual and discuss your CO alarm emergency procedure with all the members of your family. Never ignore a CO alarm. A true alarm is an indication of potentially dangerous levels of CO. CO alarms are designed to alert you to the presence of CO before an emergency – before most people would experience symptoms of CO poisoning, giving you time to resolve the problem calmly.

Determine if anyone in the household is experiencing symptoms of CO poisoning. Many cases of reported CO poisoning indicate that while victims are aware they are not well, they become so disoriented they are unable to save themselves by either exiting the building or calling for assistance. Also, young children and household pets may be the first affected. You should take extra precautions to protect high-risk persons from CO exposure because they may experience ill effects from CO at levels that would not ordinarily affect a healthy adult.

Symptoms of CO Poisoning

The following common symptoms are related to CO poisoning and should be discussed with ALL members of the household.

Mild Exposure:
Slight headache, nausea, vomiting, fatigue (often described as "flu-like" symptoms)

Medium Exposure:
Severe throbbing headache, drowsiness, confusion, fast heart rate

Extreme Exposure:
Unconsciousness, convulsions, cardio-respiratory failure, death

If you experience even mild symptoms of CO poisoning, consult your doctor immediately!

Carbon Monoxide PPM Levels

The 900-0099 is equipped with a digital display that shows levels of CO (displayed in PPM – parts per million). Learn the difference between dangerous, high, mid and low levels.

1. Information About Carbon Monoxide

Dangerous Levels:
When someone is experiencing symptoms of CO poisoning and CO readings are generally above 100 PPM. Anytime someone is experiencing the symptoms of CO poisoning this should be treated as an emergency. See "What to do When the Alarm Sounds" (inside front cover).

High Levels:
Generally above 100 PPM, with no one experiencing symptoms. This should be treated as an urgent situation. See "What to do When the Alarm Sounds" (inside front cover).

Mid Levels:
Generally between 50 PPM to 100 PPM. This should be cause for concern and should not be ignored or dismissed. See "What to do When the Alarm Sounds" (inside front cover).

Low Levels:
Generally below 50 PPM. Kidde recommends you take action to eliminate the source of CO. See "What to do When the Alarm Sounds" (inside front cover).

Possible Sources of Carbon Monoxide

Inside your home, appliances used for heating and cooking are the most likely sources of CO. Vehicles running in attached garages can also produce dangerous levels of CO.

CO can be produced when burning any fossil fuel, such as gasoline, propane, natural gas, oil and wood. It can be produced by any fuel-burning appliance that is malfunctioning, improperly installed, or not ventilated correctly, such as:

- Automobiles, furnaces, gas ranges/stoves, gas clothes dryers, water heaters, portable fuel burning space heaters and generators, fireplaces, wood-burning stoves and certain swimming pool heaters.
- Blocked chimneys or flues, back drafts and changes in air pressure, corroded or disconnected vent pipes, loose or cracked furnace exchangers.
- Vehicles and other combustion engines running in an open or closed garage, attached or near a home.
- Burning charcoal or fuel in grills and hibachis in an enclosed area.

1. Information About Carbon Monoxide

Conditions That Can Produce Carbon Monoxide

The following conditions can result in transient CO situations:

- Excessive spillage or reverse venting of fuel-burning appliances caused by outdoor ambient conditions, such as, wind direction and/or velocity, including high gusts of wind, heavy air in the vent pipes (cold/humid air with extended periods between cycles).
- Negative pressure resulting from the use of exhaust fans.
- Simultaneous operation of several fuel-burning appliances competing for limited internal air.
- Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters.
- Obstructions in, or unconventional, vent pipe designs which can amplify the above situations.
- Extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.).
- Temperature inversions which can trap exhaust gases near the ground.
- Vehicle idling in an open or closed garage, or near a home.

To be safe, know the possible sources of CO in your home. Keep fuel-burning appliances and their chimneys and vents in good working condition. Learn the early symptoms of exposure, and if you suspect CO poisoning, move outside to fresh air and get emergency help. Your first line of defense is an annual inspection and regular maintenance of your appliances. Contact a licensed contractor or call your local utility company for assistance.

Information About Carbon Monoxide Alarms – What They Can and Cannot Do:

CO alarms provide early warning of the presence of CO, usually before a healthy adult would experience symptoms. This early warning is possible, however, only if your CO alarm is located, installed and maintained as described in this guide.

Because carbon monoxide is a cumulative poison, long-term exposures to low levels may cause symptoms, as well as short-term exposures to high levels. This Kidde unit has a time-weighted alarm – the higher the level of CO present, the sooner the alarm will be triggered.

1. Information About Carbon Monoxide

This CO alarm can only warn you of the presence of CO. It does not prevent CO from occurring, nor can it solve an existing CO problem. If your unit has alarmed and you've provided ventilation by leaving your windows and doors open, the CO buildup may have dissipated by the time help responds. Although your problem may appear to be temporarily solved, it's crucial that the source of the CO is determined and that the appropriate repairs are made.

This CO alarm is designed to act as a monitor; it is not designed for use as a short-term testing device to perform a quick check for the presence of CO.

CO alarms have limitations. Like any other electronic device, CO alarms are not fool-proof. CO alarms have a limited operational life. You must test your CO alarm weekly, because it could fail to operate at any time.

If your CO alarm fails to test properly, or if its self-diagnostic test reveals a malfunction, immediately have the unit replaced. This alarm will not monitor CO levels while in an error condition.

CO alarms can only sense CO that reaches the unit's sensor. It's possible that CO may be present in other areas without reaching the alarm. The rate and ability that which CO reaches the alarm may be affected by:

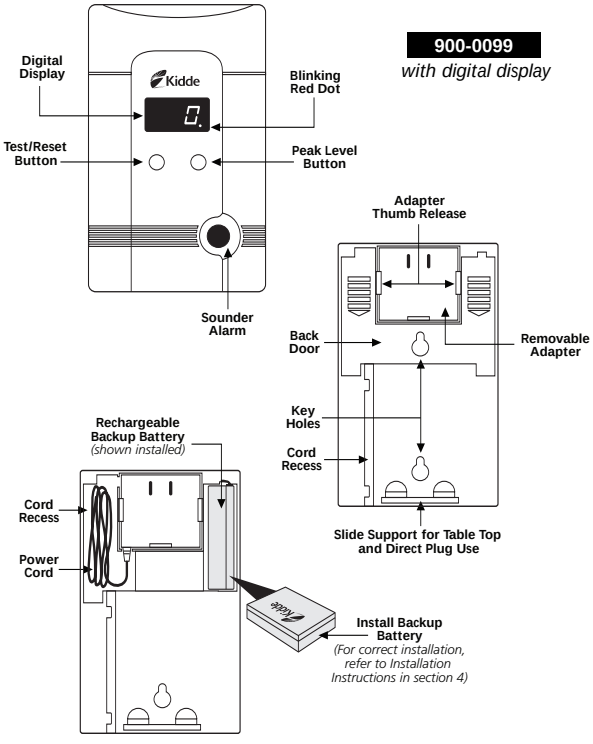
- Doors or other obstructions.
- Fresh air from a vent, an open window or other source.
- CO being present on one level of the home and not reach a CO alarm installed on a different level. (For example, CO in the basement may not reach an alarm on the second level, near the bedrooms).

For these reasons, we recommend you provide complete coverage by placing a CO alarm on every level of the home. Please carefully read all information on properly installing this CO alarm.

CO alarms should not be used to detect the presence of natural gas (methane), propane, butane, or other combustible fuels.

Instruct children never to touch, unplug or otherwise interfere with the alarm. Warn children of the dangers of CO poisoning.

2. Product Features and Specifications



Important: Eight (8) years after the initial power up, this alarm will "beep" two times every 30 seconds to indicate that it is time to replace the alarm. Replace the alarm immediately! It will not detect CO in this condition.

To help identify the date to replace the alarm, a label has been affixed to the side of the alarm. Write the "replace by" date (eight years from power up) in a permanent marker on this label.

2. Product Features and Specifications

Temperature:
Operating Range: 4.4°C (40°F) to 37.8°C (100°F)

Humidity:
Operating range: 10-95% non-condensing

Audible Alarm:
85+ dB at 10' @ 3.4±0.5 KHz pulsing alarm

Sensor:
Electrochemical

Power:
120 volts AC, 60 Hz, 60 mA max, 8 volt Lithium Ion rechargeable battery back-up

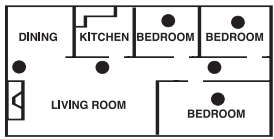
Accuracy of Digital Display:
30-999 PPM ± 30% when measured in conditions of 26.7°C (80°F) ± 5.6°C (10°F), atmospheric pressure ± 10% and 40% ± 3% relative humidity. Display readings may vary slightly depending on changes in the ambient condition (temperature, humidity) and the condition of the sensor.

Alarm Response Times:
70 PPM = 60-240 min., 150 PPM = 10-50 min., 400 PPM = 4-15 min.

3. Installation Locations

Recommended Installation Locations

CO alarms should be mounted in or near bedrooms and living areas. It is recommended that you install a Kidde CO alarm on each level of your home.



Recommended Locations

When choosing your installation locations, make sure you can hear the alarm from all sleeping areas. If you install only one CO alarm in your home, install it near bedrooms, not in the basement or furnace room.

3. Installation Locations

- When wall mounting, place out of reach of children. Under no circumstances should children be allowed to handle the CO alarm.
- Placing the alarm at eye level allows for optimum monitoring of the digital display.

Locations To Avoid

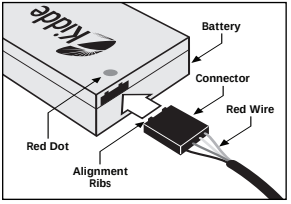
IMPORTANT: Improper location can affect the sensitive electronic components in this alarm. To avoid causing damage to the unit, to provide optimum performance, and to prevent unnecessary nuisance alarms:

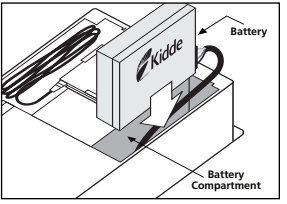
- Do not install in kitchens, garages or furnace rooms that may expose the sensor to substances that could damage or contaminate it.
- Do not install in areas where the temperature is colder than 4.4°C (40°F) or hotter than 37.8°C (100°F) such as crawl spaces, attics, porches and garages.
- Do not install within 5 ft. of heating or cooking appliances. (Kidde recommends 15 ft. to prevent nuisance alarms).
- Do not install near vents, flues, chimneys or any forced/unforced air ventilation openings.
- Do not install near ceiling fans, doors, windows or areas directly exposed to the weather.
- Do not install in dead air spaces, such as peaks of vaulted ceilings or gabled roofs, where CO may not reach the sensor in time to provide early warning.
- Do not install this unit near deep-cell large batteries. Large batteries have emissions that can cause the alarm to perform at less than optimum performance.
- Do not obstruct the vents located on the alarm. Do not place the alarm where drapes, furniture or other objects block the flow of air to the vents.
- Do not install on a switched or dimmer-controlled outlet.

4. Installation Instructions

Battery Installation

Install the battery by first removing the battery door and the battery pack. Align the connector with the slot in the battery. Insure the orientation of the two alignment ribs align with the slot in the battery. (Red dot on battery will align with red wire). Press the connector in until it is fully seated. See drawing below. Depending on the charge state of the battery pack (the battery packs can have different amounts of energy stored in them due to storage time), you may hear the alarm sound briefly to indicate the alarm is receiving power. Be sure to correctly insert battery into the battery compartment, as shown in drawing below. After inserting battery, replace back door.

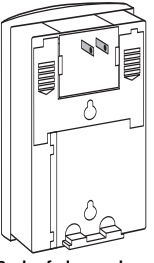




WARNING: Do not use any other type of rechargeable battery in your alarm or attempt to recharge the battery pack yourself. Improper charging may even cause the battery pack to overheat or leak, thus posing possible injury to the user.

How to Install Your Alarm

Your Kidde CO alarm with its removable adapter allows you to install the alarm as a wall mounted unit, a direct plug unit, or as a table top unit.



Back of alarm when used as direct plug unit

Direct Plug Alarm

In its "as shipped" configuration, all you need to do is install the backup battery and your Kidde CO alarm is ready to be plugged directly into a wall socket.

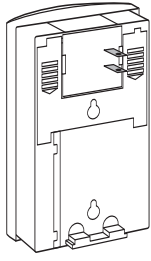
To install:

1. Choose a standard 120V unswitched outlet to plug the alarm into.
2. Pull the slide support out approximately 1/4" until the slide snaps into place. This will help support unit in the wall outlet.
3. Plug the alarm into the outlet.

4. Installation Instructions

If the outlet is mounted horizontally (sideways):

If you are going to use your alarm as a direct plug and you are going to plug in to an outlet that is mounted horizontally (sideways), you will need to rotate the adapter 90˚.



Back of alarm when used as direct plug unit for sideways outlet

To rotate the adapter:

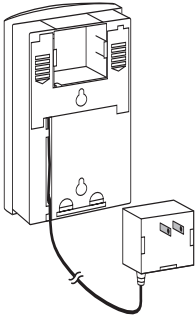
1. Remove back door by sliding it down and out.
2. Spread adapter thumb releases out and carefully turn alarm over. This will allow adapter to slide out.
3. Lift the adapter completely out of the alarm and rotate the adapter 90˚ to the right (clockwise). Snap it firmly back into place.
4. Carefully replace the back door. Insure the "latches" on all four corners of the door are lined up, then press the door securely into place.
5. Plug the alarm into an unswitched wall socket.

Wall Mounted Alarm

Installation tips for power cord models:

The power cord option provides more flexibility in mounting locations and allows the alarm to be easily installed at eye level.

For a wall-mounted unit, you will need to pull out the removable adapter and power cord.



Back of alarm when used as a wall mount unit

To install:

1. Follow steps 1 through 4 in the previous section under "To Rotate the Adapter."
2. With the adapter removed, pull the power cord out of the cord recess, remove the twist tie, and extend the power cord.
3. With the power cord extended, press the last few inches of the power cord back into the cord recess. Gently pull the cord at the bottom of the cord recess until the cord becomes taught and lays flat in cord recess.

4. Installation Instructions

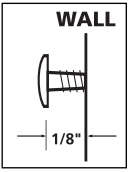
4. Carefully replace the back door. Insure the "latches" on all four corners of the door are lined up, then press the door securely into place.

5. Mark the location for the two mounting holes on the wall spaced vertically 2 5/8" apart.

6. If you are mounting the alarm in plaster board or drywall, drill a 3/16" hole into the wall and insert the plastic anchors provided. Install the two screws provided into the wall or wall anchors until the screw head is approximately 1/8" from the wall.

7. Hook the unit over the screw head and into the keyhole in back of the unit.

8. Plug the adapter into an unswitched wall socket.



Screw Head Distance from Wall

Table Top Alarm

You can use your Kidde CO alarm as a table top unit. Follow steps 1 thru 4 above. Instead of mounting the unit to a wall, pull out the slide support and place in a location that is easily visible. Be sure the alarm is no more than three feet from the floor.

5. Alarm Characteristics

Carbon Monoxide Alarm Indicator

When the alarm senses a dangerous level of CO, the unit will emit a loud alarm pattern. The alarm pattern is 4 quick beeps followed by 5 seconds of silence. This cycle repeats as long as a dangerous CO conditions exist.

WARNING: When powered by battery backup only; after four minutes, the alarm will sound and flash only once every minute, until the alarm is reset or the CO is eliminated.

If the battery is low or missing, or if the unit malfunctions, it will display other readings (and alarm differently) to alert you of specific conditions. Please familiarize yourself, and other family members, to the difference between a CO reading and and indication signifying a problem with the unit itself.

WARNING: If at any time you test the alarm and it does not perform as described, have it replaced immediately.

6. Operating Characteristics

Whenever the alarm is operating, the digital display will display "0" to indicate the unit is monitoring for CO. If the alarm senses dangerous levels of CO, the digital display will indicate the CO concentration in parts per million (PPM), and the alarm will emit an audible alarm pattern.

This alarm will display a "0" if CO concentrations between 0 and 30 PPM have been detected within the last 15 seconds.

When the unit is first powered up, the digital display will show three "eights" – indicating the alarm is in the start-up mode. The three "eights" will remain for approximately 20 seconds. After 20 seconds, the alarm should display "0" and begin monitoring the air for CO and will continue to do so as long as it receives power.

The following table illustrates the possible digital displays, describes the audible alarm patterns, and the recommended actions to take.

Operating and Alarm Characteristics: AC and DC Start Up, Alarm and Error Operation

Display Shows	Alarm Sound	Unit Status	Unit Condition	Recommendation
Brief "888" and flashing dot	One short "beep"	Self testing on start-up	Normal operation at start-up or reset	None
Steady display of number between 30 and 999	4 quick "beeps", 5 seconds off, repeating	CO detected	Unit in alarm condition	Refer to "What to do When the Alarm Sounds" (inside front cover)
Steady "Err" and flashing dot	"Beep" every 30 seconds	Unit is not operational – will not detect CO	Unit malfunction	Call Kidde customer service at 1-800-880-6788
No display	Constant alarm	Unit is not operational – will not detect CO	Unit malfunction	Call Kidde customer service at 1-800-880-6788
"End" displayed. Red LED flashes two times every 30 seconds	Two quick beeps every 30 seconds	End of unit life		Replace unit immediately. Unit will not respond to CO.

6. Operating Characteristics

AC Powered in Normal Stand-by Operation

Display Shows		Alarm Sound	Unit Status	Unit Condition	Recommendation
	"0" and flashing dot	None	Normal operation sensing for CO	Battery is fully charged	None
flashes alternately	"0 alternating with "Lb"and a flashing dot	None	Charging battery pack. Initial power-up or power was reset.	Battery discharged less than 10 hours hours on AC. Battery is in charge state.	Keep unit on AC to fully charge battery. "Lb" will disappear once battery is charged depending on initial charge.
	"0 alternating with "Lb"and a flashing dot	1 "beep" every 15 seconds	Battery disconnected or not charging	Battery discharged or disconnected longer than 10 hours	Connect battery pack. "Lb" will disappear once battery is charged depending on initial charge.

If at any time you test the alarm and it does not perform as described, have it replaced immediately.

DC Powered in Battery Backup Operation

Display Shows		Alarm Sound	Unit Status	Unit Condition	Recommendation
	"0"	None	Battery backup operation, sensing for CO	Battery is fully charged. First 5 minutes on battery backup	Connect to AC power
	"0" or CO concentration displayed once every 60 seconds; flashing dot.	None	Battery conserve mode, sensing for CO	Battery is fully charged and after 5 minutes of operation on battery backup.	Normal battery-only operation. To recharge battery connect to AC power.
flashes alternately	"0" or CO concentration alternating with "Lb".	None	Battery conserve mode, sensing for CO	Battery is partially discharged, first 5 minutes of operation on battery backup.	Connect to AC power to fully recharge battery
	"0" or CO concentration and "Lb" displayed once every 60 seconds; flashing dot.	1 "chirp" every 15 seconds	Battery conserve mode, sensing for CO	Battery is partially discharged, after 5 minutes of operation on battery backup.	Confirm battery connection if fully seated& oriented properly. Connect to AC power to fully charge battery. Call Kidde customer service at 1-800-880-6788 if condition continues

6. Operating Characteristics

DC Powered in Battery Backup Operation

Display Shows	Alarm Sound	Unit Status	Unit Condition	Recommendation
. Flashing dot once every 60 seconds	1 "chirp" every 60 seconds	Unit in trouble alarm. Mode will continue for approximately 7 hours. WILL NOT DETECT CO.	Operation on battery backup and battery is fully discharged.	Confirm battery connection is fully seated & oriented properly. Connect to AC power to fully charge battery. Call Kidde customer service at 1-800-880-6788 if condition continues.
None	None	Unit is not operational. WILL NOT DETECT CO.	Battery is disconnected or missing	Confirm battery connection is fully seated & oriented properly. Connect to AC power to fully charge battery. Call Kidde customer service at 1-800-880-6788 if condition continues.

If at any time you test the alarm and it does not perform as described, have it replaced immediately.

Peak Level Memory

When the Peak Level button is pressed and held, the display shows the highest CO reading taken by the CO alarm since its last reset or power up. The Peak Level display feature will display levels between 11-999 PPM. Although the Peak Level feature will display levels below 30 PPM, these levels will not result in an alarm no matter how long the device is exposed to these levels. The Peak Level feature is helpful in identifying if you have had a CO reading since resetting the alarm.

Concentrations of CO between 1 and 30 PPM can often occur in normal, everyday conditions. Concentrations of CO below 30 PPM may be an indication of a transient condition that may appear today and never reappear. Some CO conditions may start out as low level leaks but could develop into CO concentrations that may become harmful.

Peak Level Memory Reset

Press the Peak Level button; with the button still pressed, press the Test/Reset button for two seconds and release. The number on the display will turn to "0", the memory will be cleared and the alarm will begin monitoring for CO. The Peak Level memory is also reset when the unit loses power.

7. Maintenance

NOTE: This unit is sealed. The cover is not removable.

Due to the loudness of the alarm, we suggest that you place your fingers over the sounder opening while testing your alarm.

Caution: Continuous exposure to the high sound level of this alarm over an extended period of time may cause hearing loss.

Testing

To test the alarm, press the Test/Reset button. If the unit is operating properly, you will hear 4 quick beeps – followed by 5 seconds of silence – followed by 4 quick beeps. The display will show three "eights" and then show a number – usually around 200). Within several seconds the unit will return to monitor for CO.

Note: You do not need to press the Test button to take a CO reading.

Battery Replacement

NOTE: This CO alarm is not battery operated. However, these alarms are equipped with 8 volt Lithium Ion battery backup – the 8 volt battery is to supply short term back-up during a power outage.

WARNING: Replace the battery pack only with a Kidde rechargeable battery pack. Replacement battery packs can be purchased from Kidde customer service.

Upon initial power up or after the alarm has operated on battery backup and depending on the charge state of the battery, it could take up to 20 hours to FULLY charge the battery.

During the first 10-hour initial charge period or, until the battery has charged, "Lb" will be displayed along with the CO level (usually "0") and without an audible "beep". When the initial charge is complete, the "Lb" will disappear. If however, after 10 hours the battery is not charging properly, "Lb" may continue to flash AND there will be an audible "beep" once every 15 seconds indicating the battery is not charging. If this occurs, make sure the connection between the battery and the alarm is correctly oriented and fully seated. If not, disconnect the battery and reconnect insuring the alignment ribs match the slot in the battery. If it is properly connected and fully seated and "Lb" is still displayed along with an audible "beep", contact customer service.

7. Maintenance

Lithium Ion Battery Handling Precautions

Handling

- Do not use the battery for a purpose other than for the alarm it is specified.
- Do not recharge the battery using any charging circuit other than the one provided in the alarm. A recharging operation under non-conforming recharging conditions can cause electrolyte leakage, overheating, smoke emission, bulging/bursting and/or ignition.
- Do not discard the battery into fire or heat it under any circumstances. Otherwise, it may cause the battery to explode. Do not connect the battery to an electrical outlet.
- Do not connect the positive and negative terminals of the battery with any conductor such as metal wires. Do not store the battery or transport it together with any metal objects.
- Do not disassemble or modify the battery pack under any circumstances. Disassembling the battery can cause internal shorts, resulting in bulging/bursting due to excess gas generation, overheat, ignition, explosion or other problems.
- Do not pierce the battery with sharp objects or subject to any other mechanical forces. Do not use an apparently damaged or deformed battery.
- Do not use or leave the battery near a heat source such as a fire or heater. Do not place the battery in microwave oven or on induction heaters.
- Do not use or subject the battery to intense sunlight or hot temperatures. Otherwise, electrolyte leakage, overheating and/or smoke emission can occur. Also, its guaranteed performance will be lost and/or its service life will be shortened.
- Do not subject the battery to static electricity. Otherwise, the built-in safety/protection circuits can be damaged by static voltages, possibly leading to leakage, overheating, smoke emission, bursting and/or ignition.
- Do not immerse the battery in liquids such as fresh or salt water, beverages (fruit juices and coffee, etc.)
- If the battery leaks, and the electrolyte gets into the eyes, the skin or other part of the body, rinse the body part with clean running water and immediately seek medical attention.

7. Maintenance

- Li-Ion batteries may be disposed of in normal household waste. Contact local landfill for recycling practices in your area.

Maintenance Tips

To keep your alarm in good working order, you must follow these steps:

- Test the alarm once a week by pressing the Test/Reset button.
- Vacuum the alarm cover once a month to remove accumulated dust.
- Never use detergents or solvents to clean the alarm. Chemicals can permanently damage or temporarily contaminate the sensor.
- Avoid spraying air fresheners, hair spray, paint or other aerosols near the alarm.
- Do not paint the unit. Paint will seal the vents and interfere with proper sensor operation.

Move the CO Alarm to a remote location, to prevent possible damage or contamination of the sensor, prior to performing any of the following:

- Staining or stripping floors or furniture, painting or wall-papering
- Using aerosols or adhesives

WARNING: Reinstall the CO Alarm as soon as possible to assure continuous protection.

The following is a list of substances that at high levels can damage the sensor or cause temporary readings that are not CO readings:

- Ethylene, ethanol, alcohol, iso-propanol, benzene, toluene, ethyl acetate, hydrogen, hydrogen sulfide and sulfur dioxide.
- Also most aerosol sprays, alcohol based products, paint, thinner, solvent, adhesive, hair spray, after shave, perfume, auto exhaust (cold start) and some cleaning agents.

8. Limited Warranty

Seven Year Limited Warranty

If after reviewing this manual you feel that your alarm is defective in any way, do not tamper with the unit. In many cases, the quickest way to exchange your alarm is to return it to the original place of purchase. Alternatively, you may return it for servicing to Kidde. If you have questions, call Kidde Customer Service at 1-800-880-6788.

Kidde warrants that the enclosed alarm (but not the battery) will be free from defects in material and workmanship or design under normal use and service for a period of seven years from the date of purchase. The obligation of Kidde under this warranty is limited to repairing or replacing the alarm or any part which we find to be defective in material, workmanship or design, free of charge, upon sending the alarm with proof of date of purchase, postage and return postage prepaid, to: Kidde Canada Inc., P.O. Box 40, Apsley, ON K0L 1A0.

This warranty shall not apply to the alarm if it has been damaged, modified, abused or altered after the date of purchase or if it fails to operate due to improper maintenance or inadequate D.C. power. Any implied warranties arising out of this sale, including but not limited to the implied warranties of description,merchantability and fitness for a particular purpose, are limited in duration to the above warranty period. In no event shall the Manufacturer be liable for loss of use of this product or for any indirect, special, incidental or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise. The Manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, fire or explosion.

Since some provinces do not allow limitations of the duration of an implied warranty or do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you. While this warranty gives you specific legal rights, you may also have other rights which vary from province to province. The above warranty may not be altered except in writing signed by both parties hereto.

IMPORTANT: Do not remove unit back cover. Back cover removal will void warranty. Your Kidde Carbon Monoxide Alarm is not a substitute for property, disability, life or other insurance of any kind. Appropriate insurance coverage is your responsibility. Consult your insurance agent.

Kidde
A UTC Fire & Security Company

Kidde Canada Inc., P.O. Box 40, Apsley, ON K0L1A0

QUESTIONS OR FOR MORE INFORMATION
Call our Consumer Hotline at **1-800-880-6788** or contact us at our website at **www.kiddecanada.com**